Title: Heat Spreading Layers for Vertical Cavity
Surface Emitting Lasers
Aventor: Larry A. Coldren et al.
Serial No.: 09/934,791

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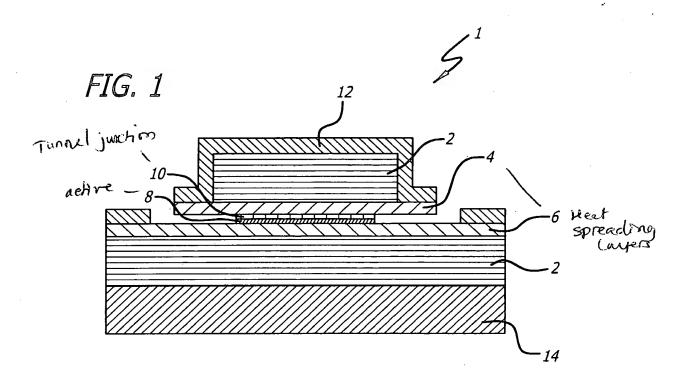


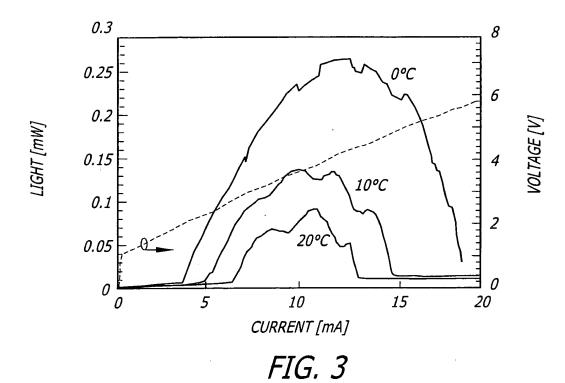
FIG. 2

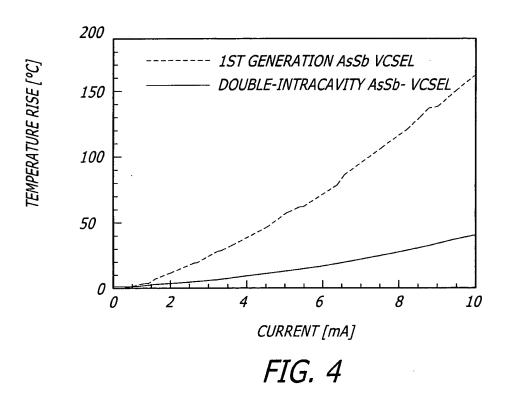
	THERMAL CONDUCTIVITY [W/K-CM]	MOBILITY [CM <sup>2</sup> /V-s]	
		ELECTRON	HOLE
InP	0.68	4600	150
AlAsSb	0.04	80	
AlGaAsSb	0.03	700	
GaAs	0.45	<i>8500</i>	400

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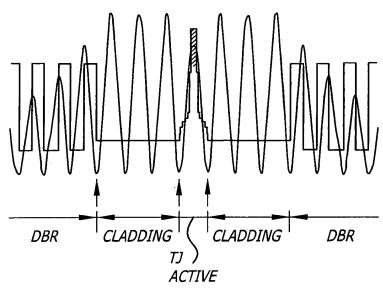
Title: Heat Spreading Layers for Vertical Cavity urface Emitting Lasers
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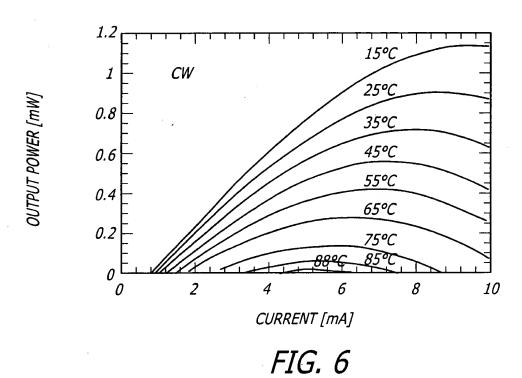
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FIG. 5





Title: Heat Spreading Layers for Vertical Cavity Surface Emitting Lasers mor: Larry A. Coldren et al. Serial No.: 09/934,791 Page 4 of 4 4/4 8 15 μm AIR POST 25 μm AIR POST 6 5 FIG. 7 INTRACAVITY CONTACT: 4 8 μm APERTURE 3 2 12 μm APERTURE 1 0 5 *15* 10 0 CURRENT [mA] 10 8 6 AIR POST 4 FIG. 8 INTRACAVITY CONTACT 2 0 15 25 5 *10* APERTURE DIAMETER [ $\mu$ m] *300* 25°C AIR POST

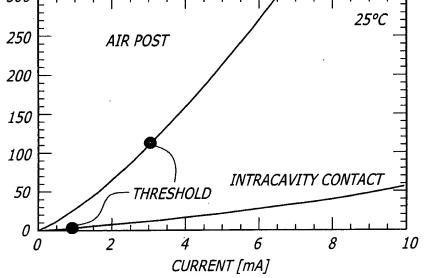


FIG. 9

THERMAL IMPEDANCE [°C/mW]

TEMPERATURE RISE [°C]